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Solar Cycle 25 increases suddenly quite spectacularly but still haltingly, but the trend is for increasing solar-activity in 2023!... After a three-month hiatus in WR-3 production I have resumed sales at eBay (vlradio). Pray for Global Peace (or else...) - SpM.

Wednesday, March 8

**Solar-Terrestrial Data**  
**08 Mar 2023 1553 GHT**  
**SFI: 180 SN: 159**  
**A-Index: 11**  
**K-Index: 1**  
**X-Ray: C1.4**  
**304H: 169.6 @ SEM**  
**Ptn Flx: 15**  
**Elc Flx: 1410**  
**Aurora: 2/n=1.99**  
**Mag (Bz): -0.2**  
**Solar Wind: 434.6**

Condition	K-In	A-In
Quiet	0-2	0-7
Unsettled	3	8-15
Active	4	16-29
Minor storm	5	30-49
Major storm	6	50-99
Severe storm	7-9	>100

<http://www.n0nbh.com>  
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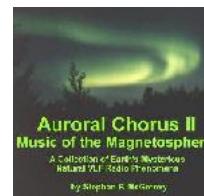


## Welcome to the Realm of Natural ELF-VLF Radio Phenomena - Version Four

"The Music of the Magnetosphere and Space Weather"

[www.auroralchorus.com](http://www.auroralchorus.com)

[My Radio-Experimentation \(and cats too!\) at my YouTube Channel - NEW March 2022](#)



[Eight Audio Albums \(MP3/WAV\) of Natural ELF-VLF Radio Phenomena: "The Music of the Magnetosphere"](#)

And also links to Seven Radio-DXing/MW-DX/FM-DX/Radio-DXpeditions done globally/radio-beacons/etc. (Internet Archives & SoundCloud Audio/Field-Recording Albums).

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"The VLF Story" by Stephen P. McGreevy - (about my ELF-VLF field-recording travels from 1989 to 2018).



[The WR-3 ELF-VLF Receiver Listening Guide](#)

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**Stereo delta-loops (orthogonally-oriented) early the morning of 01 October in the Talc City Hills SHP, Inyo, California - SP McGreevy**

Occasional nice whistlers at this time early on Monday 01 October 2018 in the northern Mojave Desert - the best time of year to listen for whistlers - SP McGreevy

[Non-Directional Beacon \(NDB\) Gallery 1984 to 2016 Travel \(Popular page!\).](#)[Mediumwave Radio DX \(and FM airchecks\) and some natural ELF-VLF radio in Iceland Dec. 2016](#)[The Best of Mediumwave DX in Hawaii \(1986 to 1991\) and on Oahu, Hawaii November 2010](#)[Alpha and Omega Radionav. Systems](#)[\[STARDUST Capsule re-entry / Leonids meteor-storms FM-skip audio\]](#)[Aurora Photo Gallery: 1995 to 2001 Expedition-Travel](#)[Funky Abandoned Hawaii-Island Cars 1986 / 1991](#)[Photos of LowFER and MedFER folks from the late 1980's](#)[British Antarctic Survey - Port Lockroy-The \(2001\) WR-4d-BAS ELF-VLF Receiver built for Port Lockroy, Antarctica](#)[The VLF Story \(first written in 1995 and updated to 2018\)](#)[Build the McGreevy BBB-4 ELF-VLF \(e-field\) Receiver - simple and fun!](#)[Beautiful Marin Fog](#)[FM-broadcast band DX \(1988-2021 Es, Ms; plus VHF-low Band F2 skip\) and Analogue-NTSC Television DX \(2008-2013\) - \[2022 FM Es DX is on my AuroralChorus-X page - albums-page link is above\]](#)[Many Natural ELF-VLF Radio and Radio DXing MP3 Albums at archive.org](#)[A photo-Gallery of my visit to Latvia - September 2009](#)

[Travel and Field Photos - Page One](#)[Travel and Field Photos - Page Two](#)

[Electromagnetic-Smog Recording Project \(Microwaves: Radar/Cell-mobile/4G/WiFi/ovens/etc.\).](#)

[Glenn Hauser's World of Radio and DX Listening Digest](#)

[Electrically-quiet \(little or no-AC-hum\) locations I have found beginning in 1989.](#)

[The Longwave Club of America](#)

[Space Audio \(YouTube\) from the Fabulous U. Iowa Plasma Wave Group \(PWG\).](#)



[MICROSFERIC Real-time Lightning Sferic analysis and location\(s\) of source lightning sferics](#)

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Grass River Provincial Park, Manitoba - 22 August 1996 - SP McGreevy (Solar-minimum VLF Expedition #2)

A Summer 1996 photo of gorgeous aurora over northern Manitoba, Canada, taken during my Manitoba Solar-Minimum VLF Expedition way back on 22 August 1996. Central/Northern Manitoba, Canada is an excellent region in North America (in late-Summer when it is still mild weather) to see gorgeous Aurora Borealis. If you wish to witness this incredible spectacle for yourself, you don't have to wait until the cold/dark of winter to go northward to see gorgeous Aurora if you head for central/northern Manitoba or Saskatchewan, Canada in late August or early September. I love the vast Canadian Boreal Forest region for its feeling of deep-wilderness! - "The True North Strong and Free."

Furthermore, I cannot recommend highly enough to anyone whom wishes to see the aurora for yourself--from experience I can highly suggest that the finest period is the four weeks surrounding 01 September. Presently, auroral displays and also natural-radio phenomena are at a minimum due to overall minimal solar-activity as we finally-depart a deep Solar-Minimum (late 2020). The Solar-Flux (2800 MHz) reached 101 on 08 September 2021 and large sunspot groups are appearing at high solar latitudes, thus exhibiting good signs of the coming Cycle 25 rising-up along with a ramping-up of good outbreaks of fine natural radio listening and phenomena. Aurora appears most frequently and brightly during the equinoctal periods around late-September and early-April (due to the alignment of Earth's magnetic-field and the IPF). Periods of fast solar-wind streams (>500 to 600 km/sec speeds) will often produce nice aurora and potentially a magnetic storm, too -- conditions ripe for whistlers.

Thus, late August through mid-September will definitely present the mildest/warmest weather for viewing (short sleeves/pants weather) Summer Prairie-Beauty Canadian weather! Do head for Canada's High Plains/Boreal Forest region in late Summer. To be deep into the optimal locations under the auroral-oval for the most superb Aurora enjoyment, journey up toward Thompson, Manitoba; The Peace Country of Alberta; or Hay River, NWT (as I did in June 1996). Find an electrically-quiet camping location and enjoy the ELF-VLF show, too! (We are coming out of a very low Solar-Minimum presently and so the signals are considerably more rare and challenging to capture compared to my previous recording-expeditions presented herein.



Stephen P. McGreevy listening to natural-radio on Hrisey, Iceland - 11 Dec. 2016 - photo by KK

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This is my website presenting the span of the time-period between June 1989 to the present in 2022 during which I have been researching and field-recording natural ELF-VLF radio phenomena via the Magnetosphere; lightning storms; telluric-origin signals; and radio "DXing."

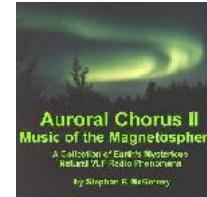
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(The entirety of this Version-Four website is in the Global-Public-Domain - nothing is copyrighted within and was updated on 09 September 2021.

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The Touch of the Waves - SPMcGreevy - Inyo County, California - 12 May 2020



[Eight Audio Albums \(MP3/WAV\) of Natural ELF-VLF Radio Phenomena](#)  
["The Music of the Magnetosphere"](#)

[\(and also links to six radio DXing/MW-DX/FM-DX/Radio DXpeditions done globally/Radiobeacons/etc. \(Internet Archives Audio/Photo Albums\)](#)





Sea of Gold - Inyo County, Calif. - 20 May 2020 - Stephen P. McGreevy

Galena Peak, Inyo County, California - July 2008 - Stephen P. McGreevy





**N6NKS and WA6IJR - SLO County, CA 10Feb2020-DXing with restored R-1000**



Stephen P. McGreevy on CA-136 at midnight Sept. 2003 - maker of the former 4096 kHz desert beacon cluster - pic by "K" —maker of the wind beacon



(my friend was riding my nice Trek to take this flash photo long ago in June 2003... near Swansea, Calif. "ghostlette-town.")



Beaconeering the 'Gendarme' beacon 6627.0

Steve McGreevy atop Maipais Mesa - Spring 2016 - pic by Karen R.





**Steve McGreevy at Coso ELF Camp Inyo, CA - listening to great whistlers  
12June 2021-1400UT- stereo loops and WR-9STL stereo-loop-receiver**



**Darwin Pass and Malpais Mesa - 24 November 2022 - SPMcGreevy**

